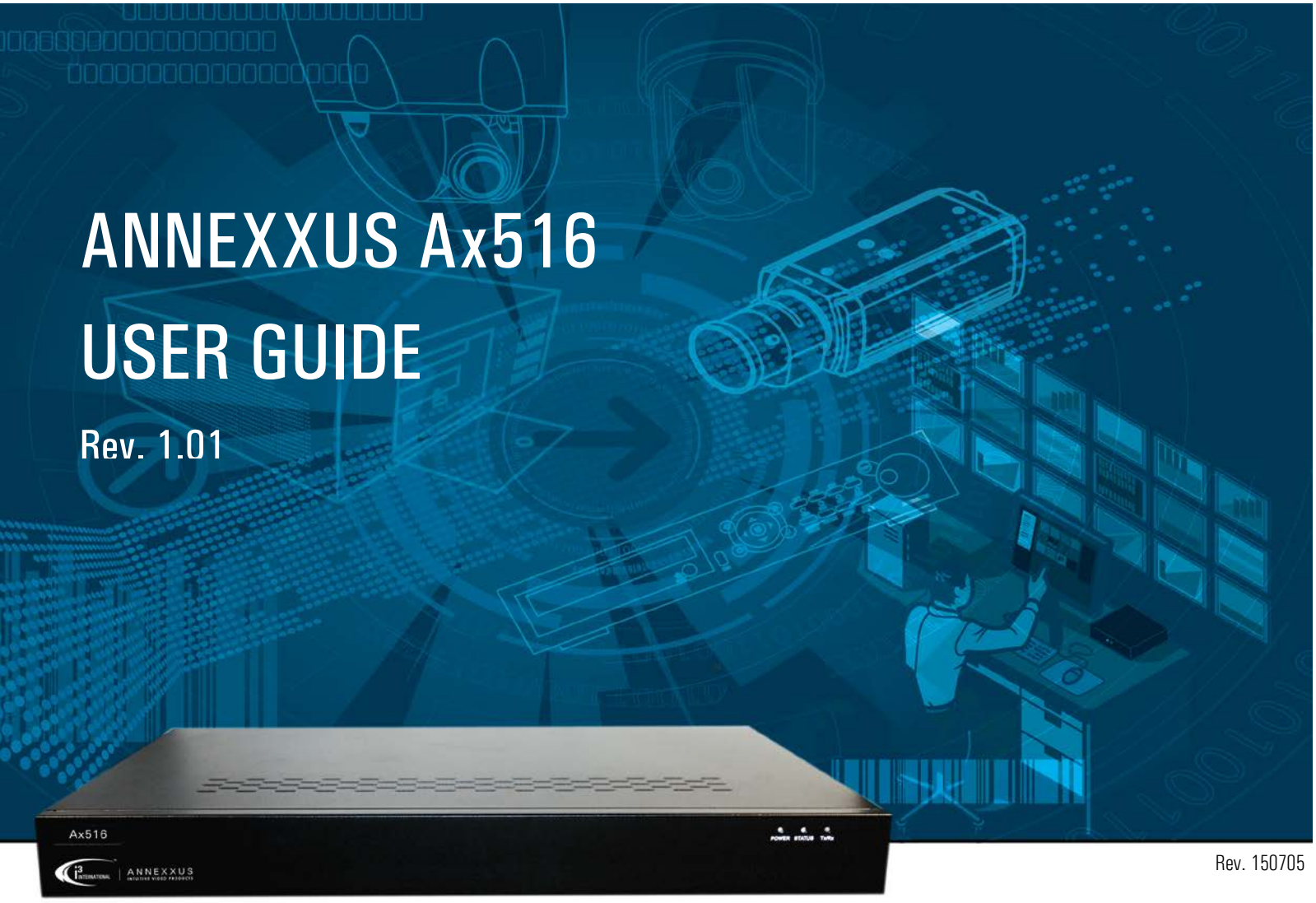
ANNEXXUS Ax516
USER GUIDE

Rev. 1.01



Rev. 150705

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Annexxus 516 User Guide

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Rev. 150705

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FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Address:

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Introduction

Thank you for purchasing i3 Annexxus 516 IP video encoder device.

Annexxus network video encoders allow to encode analog video into high quality digital video for use and storage on a hard disk (some models only) or to be transmitted via local area network and stored on your SRX-Pro Server. The benefits of this technology allow for increased flexibility within the surveillance network.

Annexxus 516 model features 16 BNC video inputs and 16 audio inputs. Optional SATA interface supports up to 4TB of hard drive storage for on-site redundancy recording, offering an effective and affordable data back-up solution in an NVR environment.
With video being locally stored on the Ax516, storage loss can be avoided during network interruptions. Additionally, Ax516 encoder can be used as an IP Network video appliance for transmitting video over the LAN to i3 Digital Video Management Software (DVMS) software. The Ax516 storage capabilities enable it to function as a conventional stand-alone DVR as well as a high-quality video streaming encoder. Dual-streaming provides two independent streams per video input, allowing viewing and recording at two different quality levels to save disk space and bandwidth.

The Ax516 encoder transmits full-motion video at 30 fps (NTSC) or 25 fps (PAL) per channel at the maximum resolution of 960H (960×480 [NTSC]; 960×576 [PAL]). For high-performance, multi-channel surveillance over IP data networks, the Ax516 is a unique multi-channel encoder that can cost effectively aid the transition from analog video to IP video at the best possible cost with little worries of video storage lost.

Installation

Warnings and Operation Notes

Installation and servicing must be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

WARNING! The use of CSA certified/ UL Listed Class 2 power adapter is required to ensure compliance.

WARNING! To reduce the risk of fire or electric shock, do not expose the product to rain or moisture.

When installing your Annexxus encoder, be sure to avoid:

- excessive heat, such as direct sunlight or heating appliances
- moisture and humidity
- environments without adequate ventilation
- contaminants such as dust and smoke
- strong magnetic fields
- sources of powerful electromagnetic radiation such as radios or TV transmitters
- areas with mechanical vibrations
- temperatures below -10° Celsius or 14° Fahrenheit and above 55° Celsius or 131° Fahrenheit.
- environments with humidity levels in excess of 90%

Power Supply

Ensure the supplied voltage meets the power consumption requirements of this camera before powering the camera on. Incorrect voltage may cause irreparable damage to the unit and will effectively void the device warranty.

Installation Requirements and Recommendations

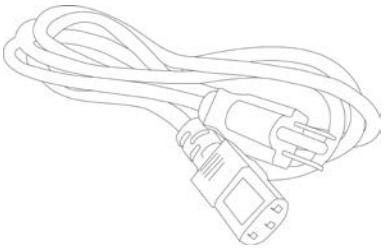
1. Use provided brackets for rack mount installations.
2. Ensure ample room for audio and video cables.
3. When installing cables, ensure that the bend radius of the cables is no less than five times its diameter.
4. Connect both the alarm and RS-485 cables.
5. Allow at least 2 cm (~ 0.75in) of space between rack mounted devices.
6. Ensure the Encoder is grounded.
7. Environmental temperature must remain within the range of -10ºC ~ 55ºC, 14ºF ~ 131ºF.
8. Environmental humidity must remain within the range of 10% ~ 90%.

Unpacking

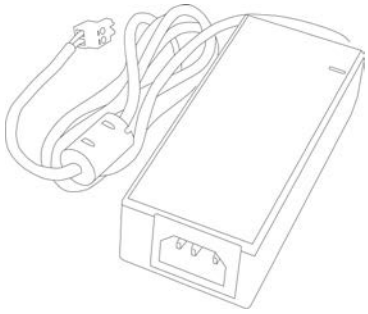
Check that the items received match those listed on the order form and packing slip. In addition to this manual, the packing box includes:

1 x Annexxus 516 encoder

1x Power cord



1x 12VDC power adapter



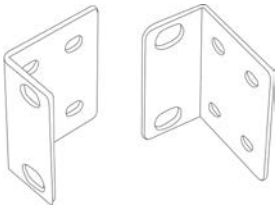
4x HDD Screws

1x HDD Power Cable

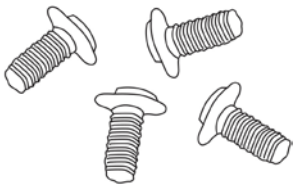
1x HDD SATA Cable

1x CD (Manual, IP Finder

2x Mounting Brackets



4x Mounting Screws



If any parts are missing or damaged, contact the dealer you purchased the encoder from.

Hard Disk Installation / Replacement

WARNING! Use only hard disk drives from the i3-approved list.

If you have purchased your Annexxus 516 without a hard disk drive (HDD) or if you need to replace the HDD in your Annexxus 516 unit, please refer to the following instructions on how to install an i3-approved drive. The installation and removal of the hard disk must be performed by a qualified and experienced technicians to conform to all local codes and to maintain your warranty.
Before installing a hard disk drive (HDD) for Annexxus 516, ensure that the power is disconnected from the device. Use only an i3-approved HDD.

Step 1.

Ground yourself. This will remove any static electrical charge your body might be carrying.

Step 2.

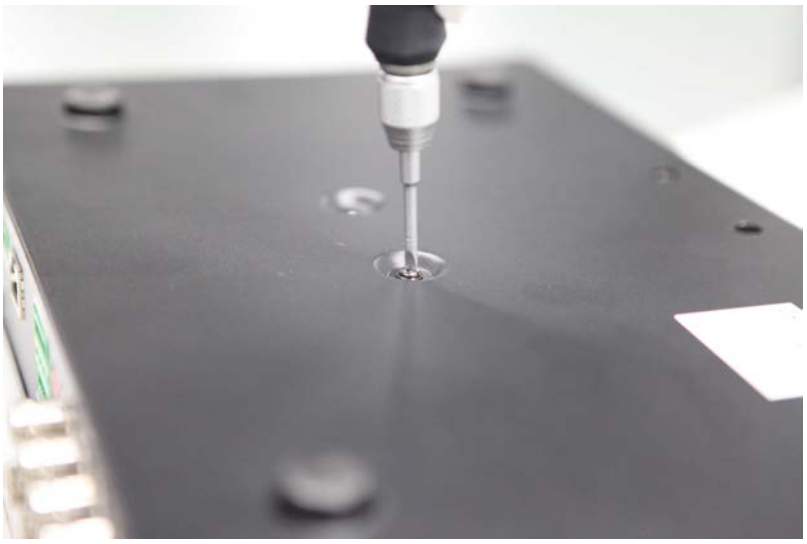
Using a Phillips screwdriver, remove the screws on both sides and on the rear panel of Annexxus 516. Remove the cover from the chassis.

Step 3.

Place the i3-approved HDD into the hard drive slot of the chassis, face up.

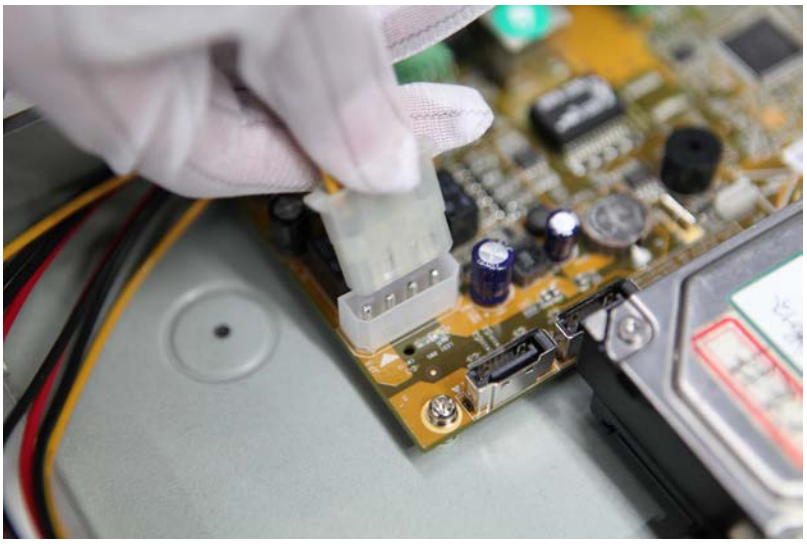
Step 4.

Securely attach the HDD to the bottom of the chassis with the four screws provided.



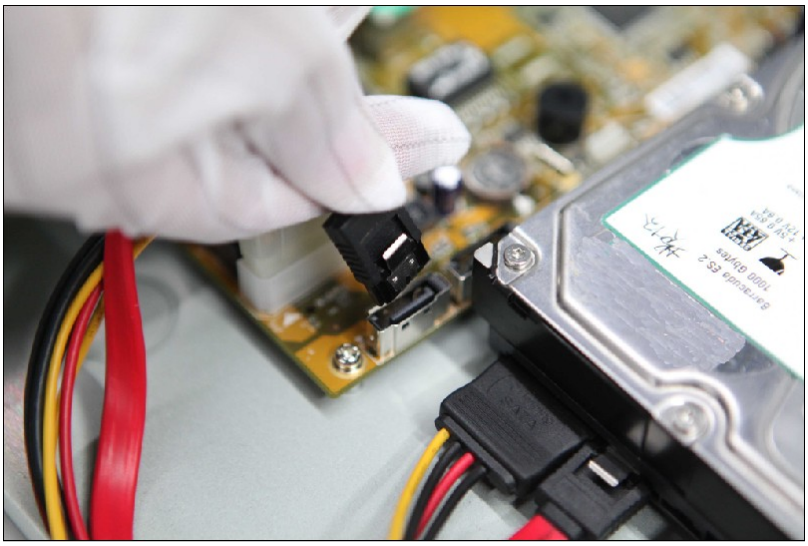
Step 5.

Remove the HDD power cable from the accessories box. Plug one end of the cable into the power port on the HDD and the other end - into the circuit board, as shown in the image below.



Step 6

Remove the SATA cable from the accessories box. Plug one end of the SATA cable into the SATA port on the HDD and the other end - into the circuit board, as shown in the image below.



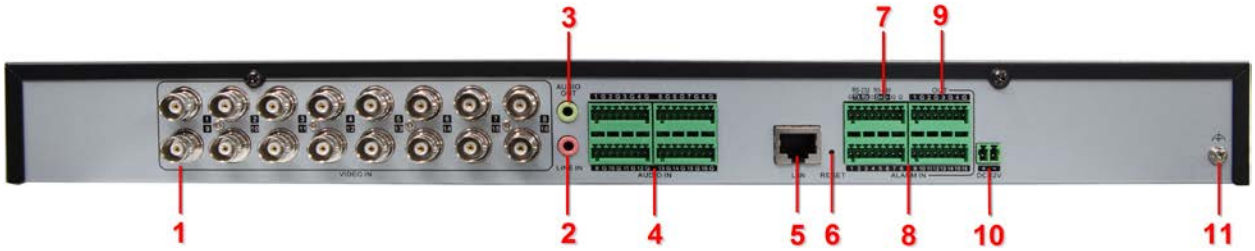
Step 7

Replace the chassis cover and re-tighten the screws on both sides and on the rear panel of the chassis.

Front Panel

	Indicator	Description
1	POWER	LED is red when power is ON
2	STATUS	LED is red when data is being read from or written to the HDD. Applies only to models with the installed HDD.
3	Tx/Rx	1. LED of OFF when Annexxus 516 is not connected to the network 2. LED blinks green when the data is being transmitted / received; 3. LED blinks at higher frequency when the large amounts of data are being transmitted/received.

Rear Panel



	Indicator	Description
1	VIDEO IN	BNC connectors for analog video inputs (1-16)
2	LINE IN	3.5mm two-way audio interface; connect to active pick-up, microphone, etc.
3	AUDIO OUT	3.5mm audio output interface; connect to audio output device, such as a speaker, etc.
4	AUDIO IN	Line input interface for audio input. Audio Port number corresponds and is hard-linked with the Video Port number. Make sure to connect audio inputs to the corresponding video channels.
5	LAN	10M/100/1000Mbps adaptive Ethernet interface
6	RESET	Restore Annexxus 516 unit to factory default settings by pressing the RESET pin hole button for 15 seconds after the power is turned OFF
7	RS-485	RS-485 serial interface is provided for Pan/Tilt/Zoom support for PTZ cameras.
8	ALARM IN	Relay alarm input (up to 16 sensors)
9	ALARM OUT	Relay alarm output (up to 4 controls)
10	DC12V	12V DC power supply
11	GND	Grounding

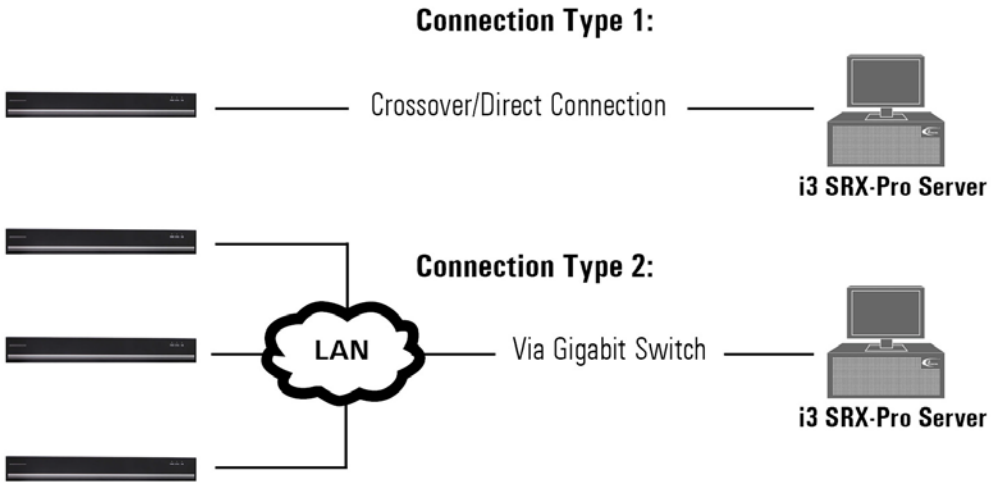
Installation Instructions

1. Connect up to 16 analog cameras to the BNC VIDEO IN ports on the back of the Annexxus 516 unit
2. Connect the microphone or other two-way audio device to the LINE IN 3.5mm port, if using
3. Connect the speakers, or other audio output device to the AUDIO OUT 3.5mm port, if using
4. Connect up to 16 audio inputs to the AUDIO IN ports, if using. Audio Port number corresponds and is hard-linked with the Video Port number. Make sure to connect audio inputs to the corresponding video channels.
5. Connect a network cable to the LAN port on the back of the Annexxus 516 unit, plug in the other end of the cable to SRX-Pro Server for a direct/cross-over connection or plug into the Gigabit switch if using on the network or connecting multiple Annexxus 516 units.

6. Connect PTZ control cables from PTZ cameras to RS-485 port on the back of the Annexxus 516 unit, if using.
7. Connect up to 16 sensor inputs to ALARM IN ports, if using.
8. Connect up to 4 control relay outputs to ALARM OUT ports, if using.
9. Connect the 12VDC power adapter to your Annexxus 516 unit.
10. Connect the power cable to the 12VDC power adapter.
11. Lastly, plug in the power cable into the power source. The use of UPS (Uninterrupted Power Supply) is highly recommended to extend the life of your unit. Annexxus 516 unit will power on automatically.

Connecting Encoder to the SRX-Pro Server

Encoder Connection Options



Hardware/Software Requirements

The following requirements must be met to achieve a successful network connection with the Annexxus 516 encoder. SRX-Pro Server:

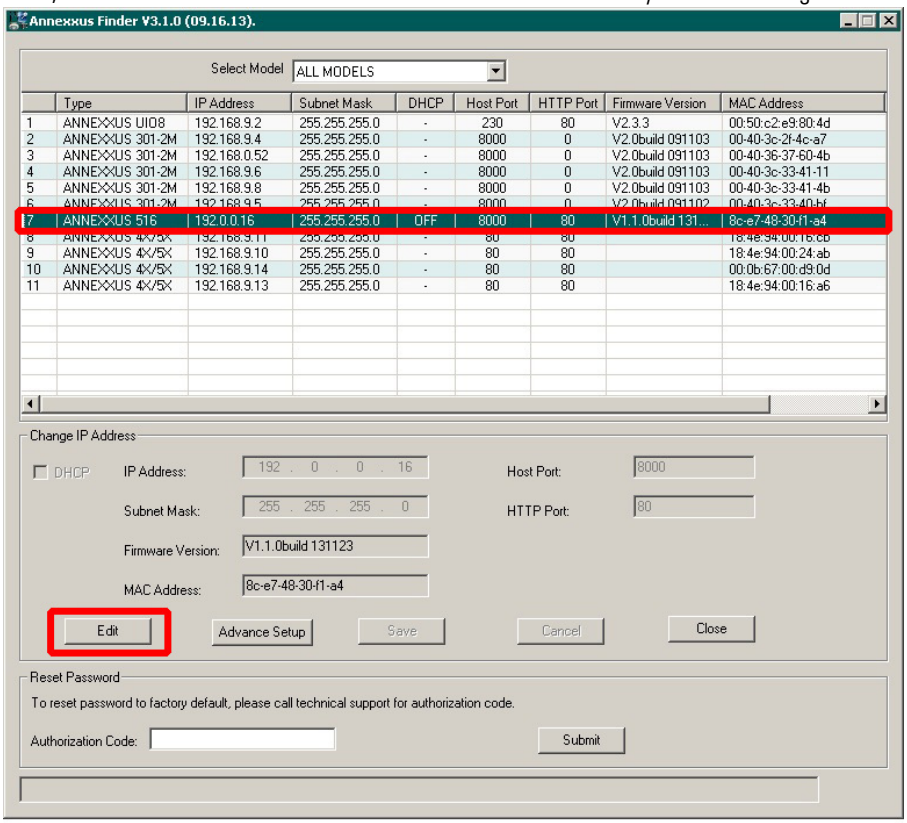
- i3 SRX-Pro Version 3.0 or higher
- Latest GiPi adapter is installed. GiPi adapters can be downloaded from i3 FTP website. (Please contact i3 Technical Support for more information.)
- Windows XP, XPe, 7 Pro or 7e
- Internet Explorer v6.0 and above, Firefox v3.5 and above, Chrome v8 and above, Safari v5.0.2 and above
  Note: If you are using Internet Explorer v.10 or v.11, you must first add the Annexxus 516 IP address to the browser's Compatibility View Settings.
- CPU: Intel Pentium Core 2 or higher
- Memory: 1GB or more
- VGA card--supporting Direct X 9.0 or above

Assigning IP Address to your Annexxus Encoder

Annexxus 516 encoder's default IP address is **192.0.0.16**
Default subnet mask address is **255.255.255.0**.
Default User Name: **admin** and default Password: **1234**

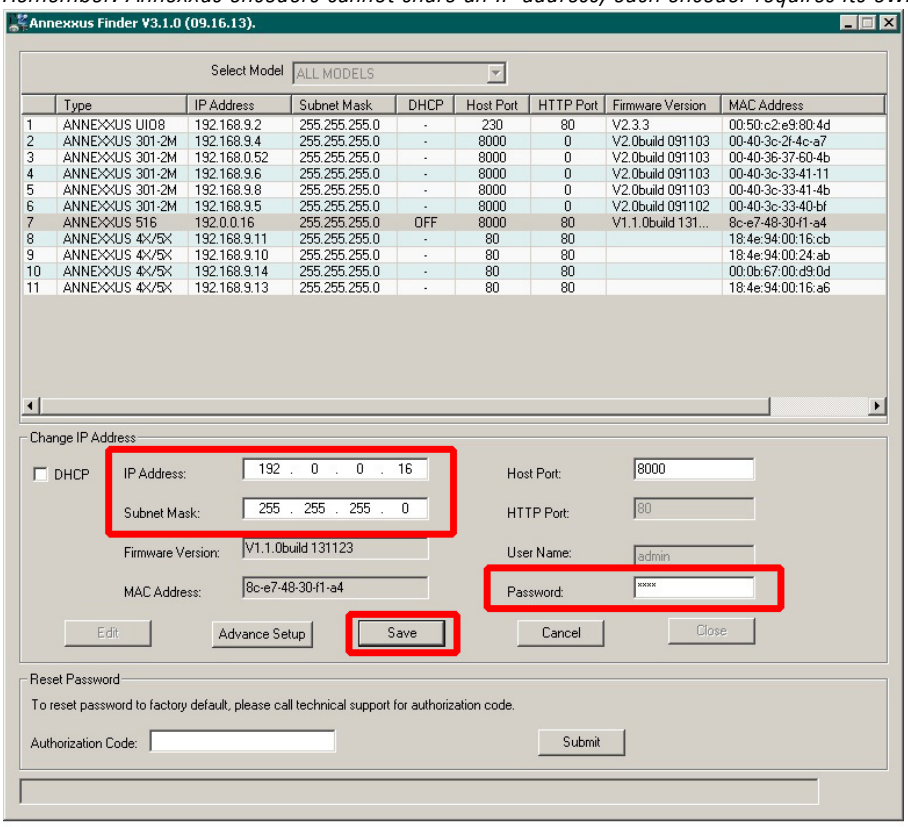
To connect your Annexxus encoder to your SRX-Pro Server, follow these instructions:

1. Close SRX-Pro Server software by pressing **Alt+Shift+Ctrl+F4.**
2. Change the IP address on the onboard NIC (LAN) (or on NIC1 if your SRX-Pro Server has two onboard NIC cards) of your SRX-Pro Server to 192.0.0.XXX to match the default IP range of your Annexxus IP encoder.
3. Connect the network cable from the SRX-Pro Server (crossover direct connection) or from the Gigabit switch to your Annexxus encoder.
4. Turn on your Annexxus encoder.
5. Locate the CD that came with your Annexxus encoder and insert it in the CD-ROM drive of your SRX-Pro Server.
6. Double-click "AnnexxusFinder.exe" file to install Annexxus Finder application. Annexxus Finder application discovers all Annexxus devices connected to your network.
7. Follow the Annexxus Finder installation instructions until the application has been successfully installed on your SRX-Pro Server.
8. Double-click Annexxus Finder icon on the Desktop to launch the application.
9. The application window will appear displaying a list of active encoders.
10. Next, select desired encoder in the Annexxus Finder software by double-clicking it in the list and click **Edit**.

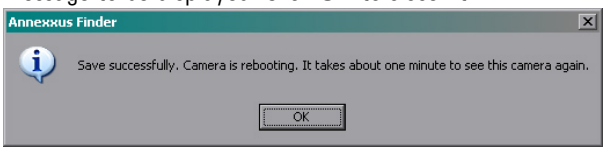

Annexxus Finder V3.1.0 (09.16.13).
Select Model
ALL MODELS
Type
IP Address
Subnet Mask
DHCP
Host Port
HTTP Port
Firmware Version
MAC Address
1 ANNEXXUS UIO8 192.168.9.2 255.255.255.0 - 230 80 V2.3.3 00:50:c2:e9:80:4d
2 ANNEXXUS 301-2M 192.168.9.4 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-2f-4c-a7
3 ANNEXXUS 301-2M 192.168.0.52 255.255.255.0 - 8000 0 V2.0build 091103 00-40-36-37-60-4b
4 ANNEXXUS 301-2M 192.168.9.6 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-33-41-11
5 ANNEXXUS 301-2M 192.168.9.8 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-33-41-4b
7 ANNEXXUS 516 192.0.0.16 255.255.255.0 OFF 8000 80 V1.1.0build 131... 8c-e7-48-30-f1-a4
9 ANNEXXUS 4X/5X 192.168.9.10 255.255.255.0 - 80 80 18:4e:94:00:24:ab
10 ANNEXXUS 4X/5X 192.168.9.14 255.255.255.0 - 80 80 00:0b:67:00:d9:0d
11 ANNEXXUS 4X/5X 192.168.9.13 255.255.255.0 - 80 80 18:4e:94:00:16:a6
Change IP Address
DHCP
IP Address: 192 . 0 . 0 . 16
Host Port: 8000
Subnet Mask: 255 . 255 . 255 . 0
HTTP Port: 80
Firmware Version: V1.1.0build 131123
MAC Address: 8c-e7-48-30-f1-a4
Edit
Advance Setup
Save
Cancel
Close
Reset Password
To reset password to factory default, please call technical support for authorization code.
Authorization Code:
Submit

11. Enter the **new IP address and Subnet Mask** of the encoder in the Change IP Address area. The new encoder IP address must match the original range of your SRX-Pro LAN or NIC1 card. E.g. If your original SRX-Pro Server's IP address was 192.138.10.122, change your Annexxus encoder's IP address to 192.138.10.XXX.

Remember: Annexxus encoders cannot share an IP address, each encoder requires its own unique IP address.


Annexxus Finder V3.1.0 (09.16.13).
Select Model
ALL MODELS
Type
IP Address
Subnet Mask
DHCP
Host Port
HTTP Port
Firmware Version
MAC Address
1 ANNEXXUS UIO8 192.168.9.2 255.255.255.0 - 230 80 V2.3.3 00:50:c2:e9:80:4d
2 ANNEXXUS 301-2M 192.168.9.4 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-2f-4c-a7
3 ANNEXXUS 301-2M 192.168.0.52 255.255.255.0 - 8000 0 V2.0build 091103 00-40-36-37-60-4b
4 ANNEXXUS 301-2M 192.168.9.6 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-33-41-11
5 ANNEXXUS 301-2M 192.168.9.8 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-33-41-4b
6 ANNEXXUS 301-2M 192.168.9.5 255.255.255.0 - 8000 0 V2.0build 091102 00-40-3c-33-40-bf
7 ANNEXXUS 516 192.0.0.16 255.255.255.0 OFF 8000 80 V1.1.0build 131... 8c-e7-48-30-f1-a4
8 ANNEXXUS 4X/5X 192.168.9.11 255.255.255.0 - 80 80 18:4e:94:00:16:cb
9 ANNEXXUS 4X/5X 192.168.9.10 255.255.255.0 - 80 80 18:4e:94:00:24:ab
10 ANNEXXUS 4X/5X 192.168.9.14 255.255.255.0 - 80 80 00:0b:67:00:d9:0d
11 ANNEXXUS 4X/5X 192.168.9.13 255.255.255.0 - 80 80 18:4e:94:00:16:a6
Change IP Address
DHCP
IP Address: 192 . 0 . 0 . 16
Subnet Mask: 255 . 255 . 255 . 0
Firmware Version: V1.1.0build 131123
MAC Address: 8c-e7-48-30-f1-a4
Host Port: 8000
HTTP Port: 80
User Name: admin
Password: ****
Edit
Advance Setup
Save
Cancel
Close
Reset Password
To reset password to factory default, please call technical support for authorization code.
Authorization Code:
Submit

12. Enter the default encoder password: **1234** in the Input Password field and click **Save**.
13. Wait a few moments as the new IP address is being applied to your Annexxus device. Wait for the following message to be displayed. Click **OK** to close it.



14. Now that the new IP address has been successfully assigned to your encoder, make sure you can connect to it through the web browser (instructions below).

Accessing via Web Browser

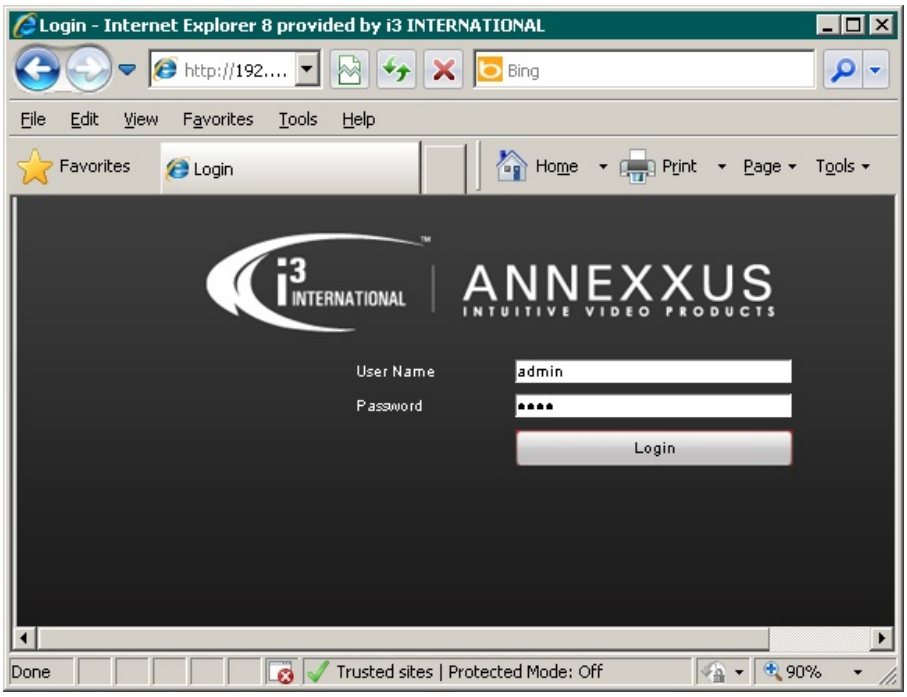
Annexxus 516 encoder can be accessed through Web Browser for live viewing or setup configuration. The following web browser versions are supported: Internet Explorer v6.0 and above, Firefox v3.5 and above, Chrome v8 and above, Safari v5.0.2 and above.

Note: If you are using Internet Explorer v.10 or v.11, you must first add the Annexxus 516 IP address to the browser's Compatibility View Settings.

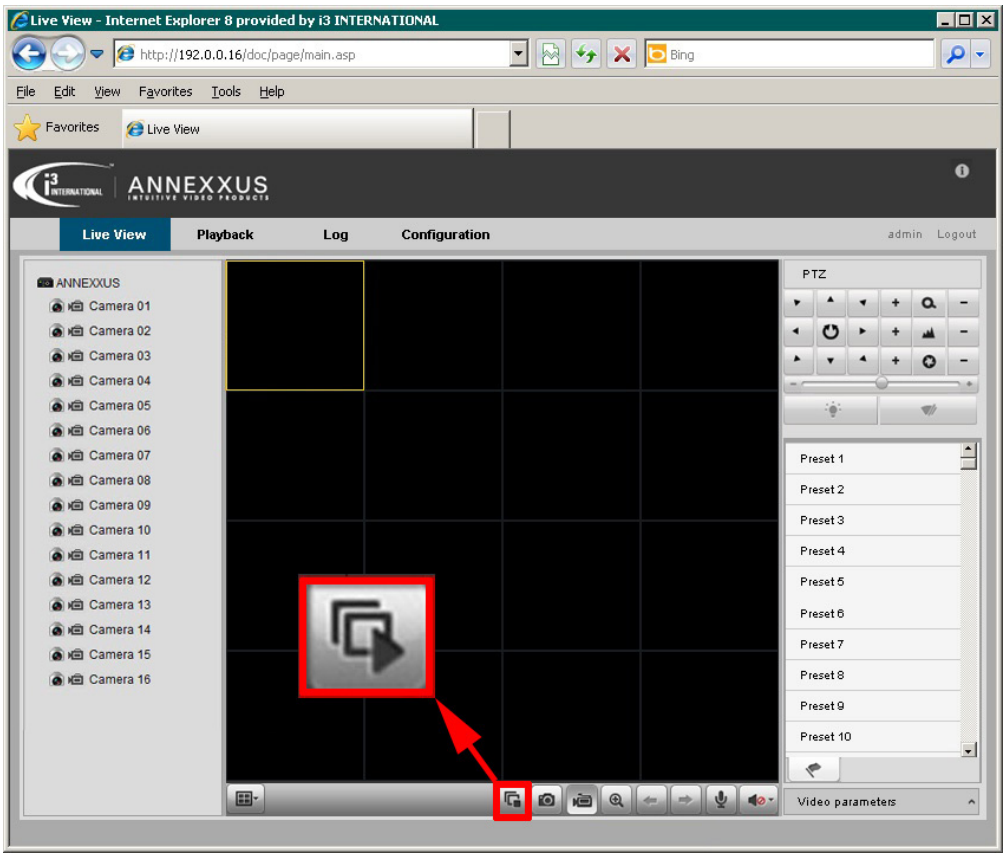
To access the Annexxus 516 through your web browser,

1. Open web browser window and enter the encoder's IP address. Annexxus 516 default IP address is: http://192.0.0.16

2. In the login window, enter the encoder User Name and Password. Annexxus 516 default User Name is **admin** and default Password: **1234.**



3. If accessing for the first time, download and install browser plug-in.
4. Annexxus 516 Live View window will be displayed in your browser window.
5. Annexxus encoder interface will be displayed in the Internet Explorer window. Click the Play All icon to display all connected analog cameras.



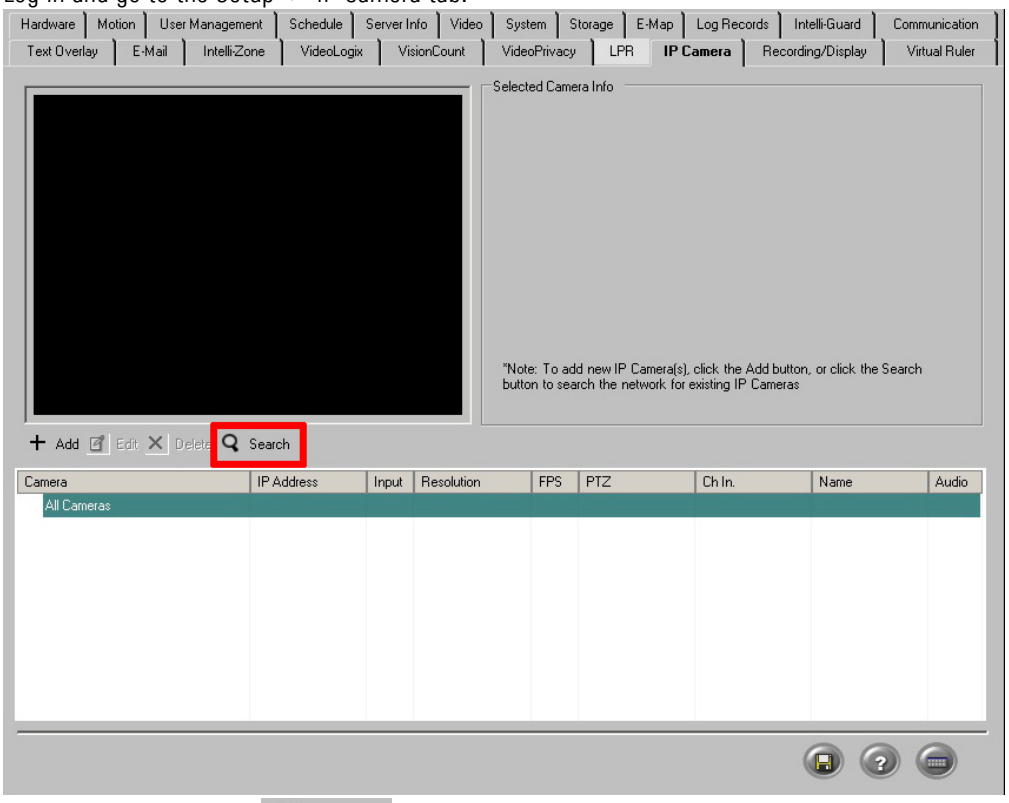
6. If you do not see the camera images on the screen, call i3 International tech support for help.

Adding your IP Encoder to your SRX-Pro Server

Make sure that the latest version of GiPi updater is installed on your SRX-Pro Server.
You can download the most recent GiPi installer package from our website: from
http://www.i3international.com/index.php/en/support/downloads-2

1. Once the latest GiPi updater has been installed, restart i3 SRX-Pro Server software.

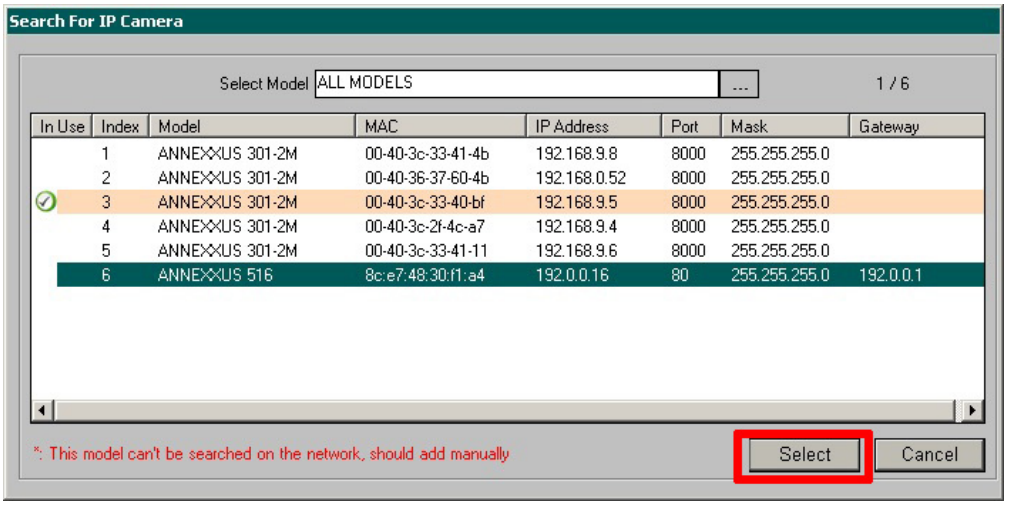
2. Log In and go to the Setup -> IP Camera tab.



3. Click the **Search** button

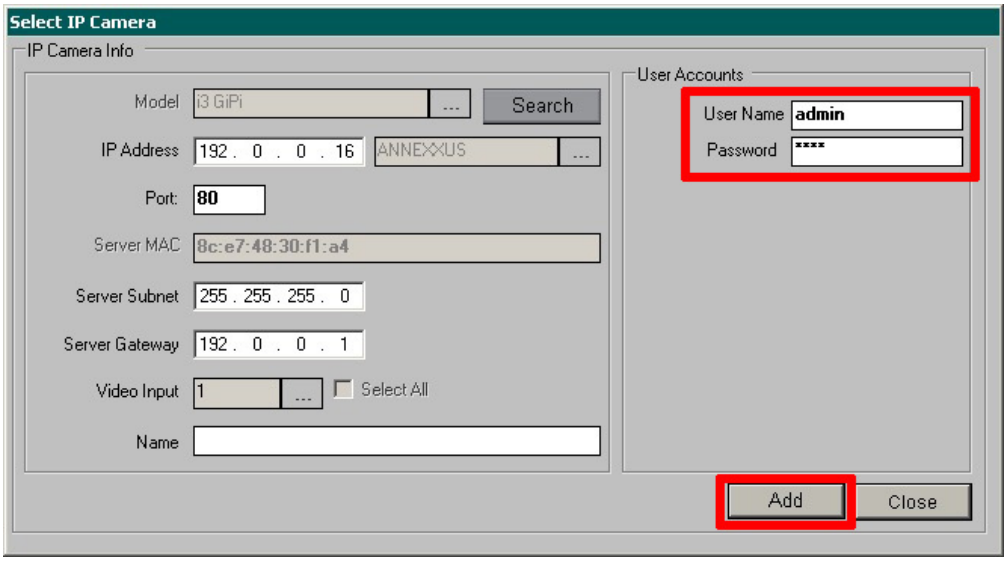
.

4. Locate **ANNEXXUS 516** in the list and click the **Select** button.

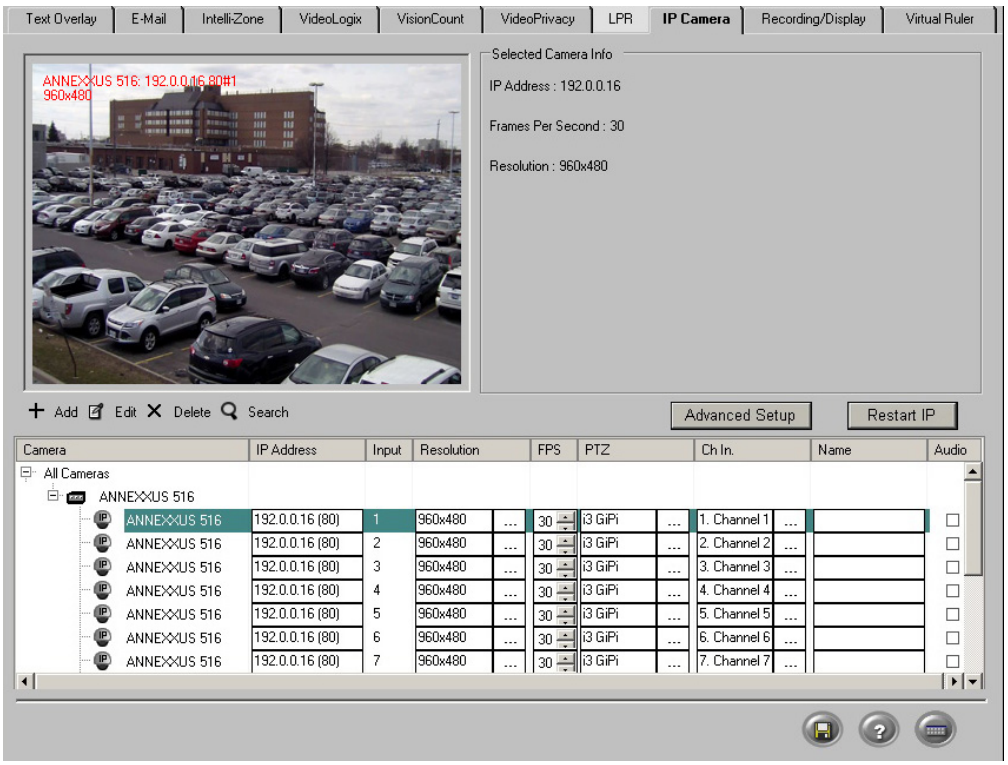


5. In the Select IP Camera window, enter Annexxus 516 User Name and Password. The default User Name/Password is **admin**/**1234**.

6. Then, click the **Add** button.

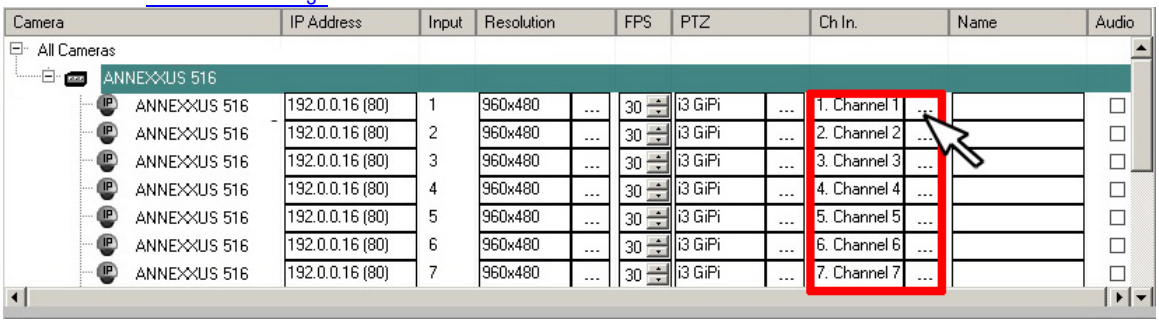


7. Enter the encoder's **IP Address** and select **ANNEXXUS** from the drop-down list, then click the **Search** button.
8. The encoder will be added to the list.

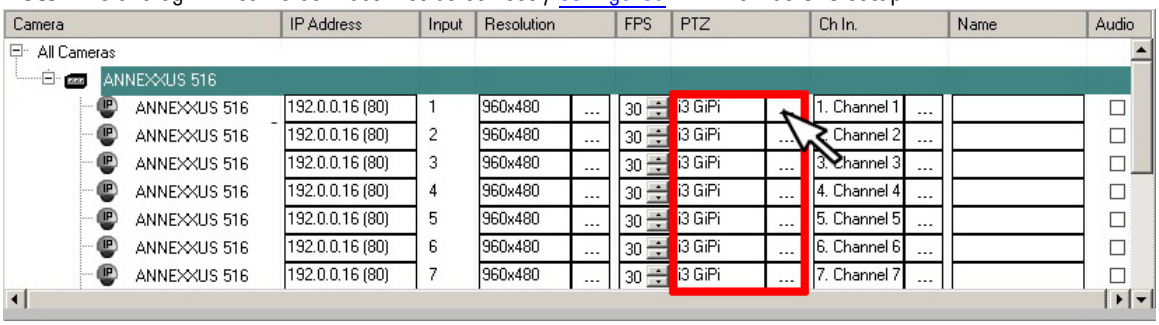


9. Note that *all 16 inputs* will be added. Delete the inputs that do not have analog camera connected. Next, assign the cameras to the SRX-Pro video channels (see image below). You may change resolution and frame rate for the connected cameras in the IP Camera tab menu or you may choose to configure them through

the encoder's advanced settings.


Camera
IP Address
Input
Resolution
FPS
PTZ
Ch In.
Name
Audio
All Cameras
ANNEXXUS 516
ANNEXXUS 516 192.0.0.16 (80) 1 960x480 30 i3 GiPi 1. Channel 1
ANNEXXUS 516 192.0.0.16 (80) 2 960x480 30 i3 GiPi 2. Channel 2
ANNEXXUS 516 192.0.0.16 (80) 3 960x480 30 i3 GiPi 3. Channel 3
ANNEXXUS 516 192.0.0.16 (80) 4 960x480 30 i3 GiPi 4. Channel 4
ANNEXXUS 516 192.0.0.16 (80) 5 960x480 30 i3 GiPi 5. Channel 5
ANNEXXUS 516 192.0.0.16 (80) 6 960x480 30 i3 GiPi 6. Channel 6
ANNEXXUS 516 192.0.0.16 (80) 7 960x480 30 i3 GiPi 7. Channel 7

10. In order to be able to use SRX-Pro Server/Remote on-screen PTZ controls and PTZ control panel to control analog PTZ cameras connected to Annexxus 516, select i3 GiPI in PTZ drop-down menu for each PTZ analog camera connected to Annexxus 516 (see image below).
    Note: The analog PTZ cameras must first be correctly configured in Annexxus 516 setup.

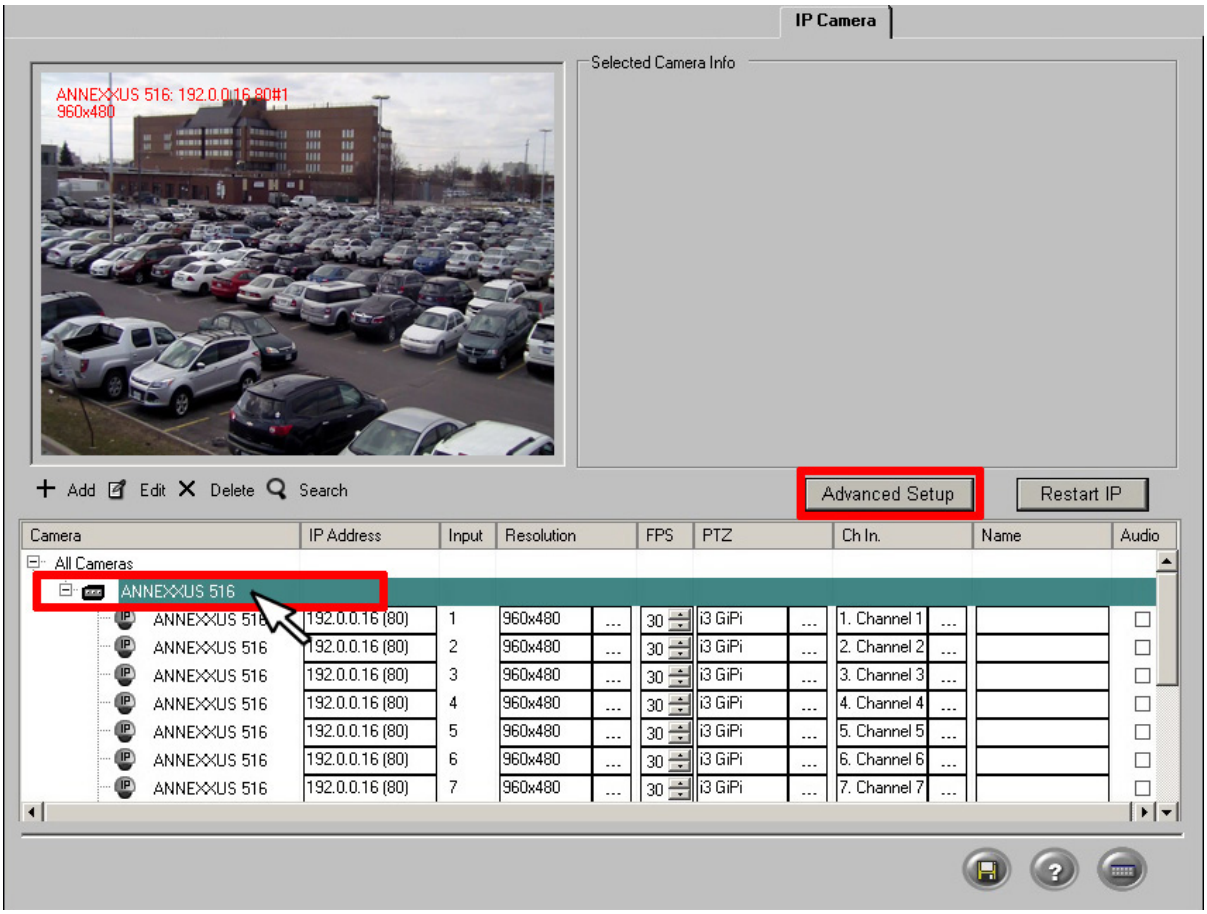

Camera
IP Address
Input
Resolution
FPS
PTZ
Ch In.
Name
Audio
All Cameras
ANNEXXUS 516
ANNEXXUS 516 192.0.0.16 (80) 1 960x480 30 i3 GiPi 1. Channel 1
ANNEXXUS 516 192.0.0.16 (80) 2 960x480 30 i3 GiPi 2. Channel 2
ANNEXXUS 516 192.0.0.16 (80) 3 960x480 30 i3 GiPi 3. Channel 3
ANNEXXUS 516 192.0.0.16 (80) 4 960x480 30 i3 GiPi 4. Channel 4
ANNEXXUS 516 192.0.0.16 (80) 5 960x480 30 i3 GiPi 5. Channel 5
ANNEXXUS 516 192.0.0.16 (80) 6 960x480 30 i3 GiPi 6. Channel 6
ANNEXXUS 516 192.0.0.16 (80) 7 960x480 30 i3 GiPi 7. Channel 7

11. Your Annexxus encoder is now connected to SRX-Pro Server and ready to record.

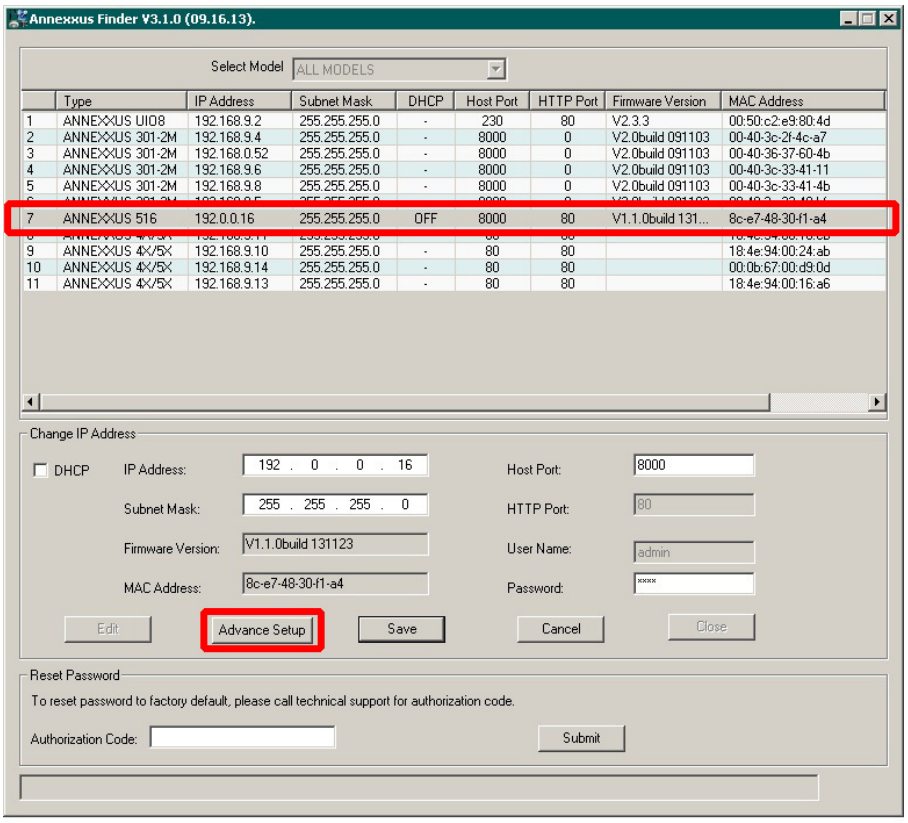
Accessing Encoder Settings

To make changes to the Encoder settings, or to view / download video recorded to the encoder's hard drive, you must access the encoder's Web GUI.
This can be done either through SRX-Pro Server setup, Annexxus Finder application, which can be installed from the software CD included with Annexxus 516 accessories, or directly from an Internet Explorer browser window.

To access the encoder's Web GUI through **SRX-Pro Server**, open the IP Camera setup tab, then select ANNEXXUS 516 device in the list and click the **Advanced Setup** button.


IP Camera
Selected Camera Info
ANNEXXUS 516: 192.0.0.16 80#1
960x480
Add
Edit
Delete
Search
Advanced Setup
Restart IP
Camera
IP Address
Input
Resolution
FPS
PTZ
Ch In.
Name
Audio
All Cameras
ANNEXXUS 516
ANNEXXUS 516 192.0.0.16 (80) 1 960x480 30 i3 GiPi 1. Channel 1
ANNEXXUS 516 192.0.0.16 (80) 2 960x480 30 i3 GiPi 2. Channel 2
ANNEXXUS 516 192.0.0.16 (80) 3 960x480 30 i3 GiPi 3. Channel 3
ANNEXXUS 516 192.0.0.16 (80) 4 960x480 30 i3 GiPi 4. Channel 4
ANNEXXUS 516 192.0.0.16 (80) 5 960x480 30 i3 GiPi 5. Channel 5
ANNEXXUS 516 192.0.0.16 (80) 6 960x480 30 i3 GiPi 6. Channel 6
ANNEXXUS 516 192.0.0.16 (80) 7 960x480 30 i3 GiPi 7. Channel 7

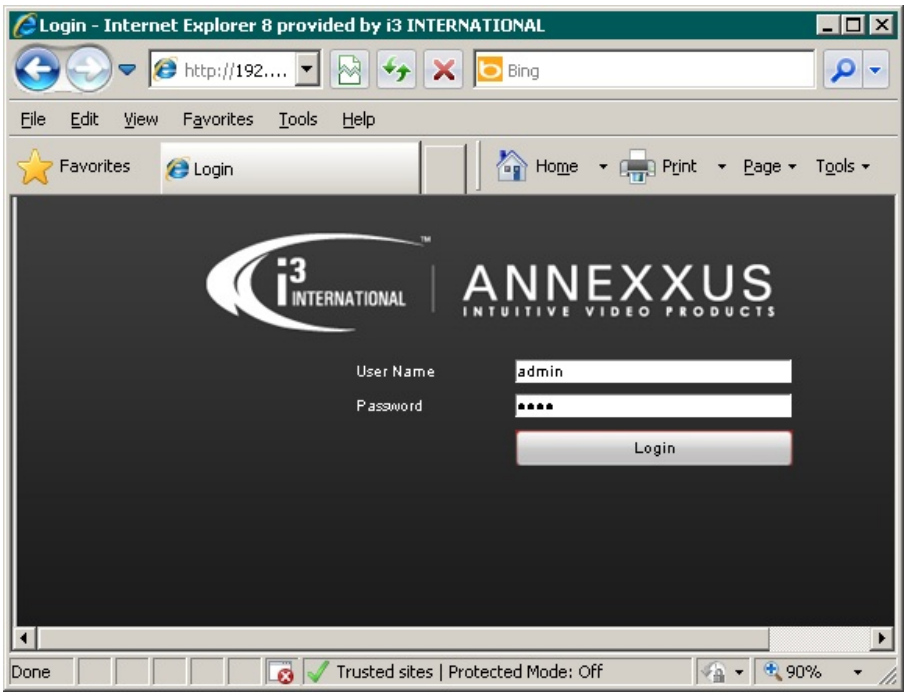
To access the encoder's Web GUI through **Annexxus Finder**, launch Annexxus Finder application. Then, select your desired Annexxus 516 encoder in the Annexxus Finder software by double-clicking it in the list and click **Advanced Setup**.


Annexxus Finder V3.1.0 (09.16.13).
Select Model
ALL MODELS
Type
IP Address
Subnet Mask
DHCP
Host Port
HTTP Port
Firmware Version
MAC Address
1 ANNEXXUS UIO8 192.168.9.2 255.255.255.0 - 230 80 V2.3.3 00:50:c2:e9:80:4d
2 ANNEXXUS 301-2M 192.168.9.4 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-2f-4c-a7
3 ANNEXXUS 301-2M 192.168.0.52 255.255.255.0 - 8000 0 V2.0build 091103 00-40-36-37-60-4b
4 ANNEXXUS 301-2M 192.168.9.6 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-33-41-11
5 ANNEXXUS 301-2M 192.168.9.8 255.255.255.0 - 8000 0 V2.0build 091103 00-40-3c-33-41-4b
7 ANNEXXUS 516 192.0.0.16 255.255.255.0 OFF 8000 80 V1.1.0build 131... 8c-e7-48-30-f1-a4
9 ANNEXXUS 4X/5X 192.168.9.10 255.255.255.0 - 80 80 18:4e:94:00:24:ab
10 ANNEXXUS 4X/5X 192.168.9.14 255.255.255.0 - 80 80 00:0b:67:00:d9:0d
11 ANNEXXUS 4X/5X 192.168.9.13 255.255.255.0 - 80 80 18:4e:94:00:16:a6
Change IP Address
DHCP
IP Address: 192 . 0 . 0 . 16
Subnet Mask: 255 . 255 . 255 . 0
Firmware Version: V1.1.0build 131123
MAC Address: 8c-e7-48-30-f1-a4
Host Port: 8000
HTTP Port: 80
User Name: admin
Password: ****
Edit
Advance Setup
Save
Cancel
Close
Reset Password
To reset password to factory default, please call technical support for authorization code.
Authorization Code:
Submit

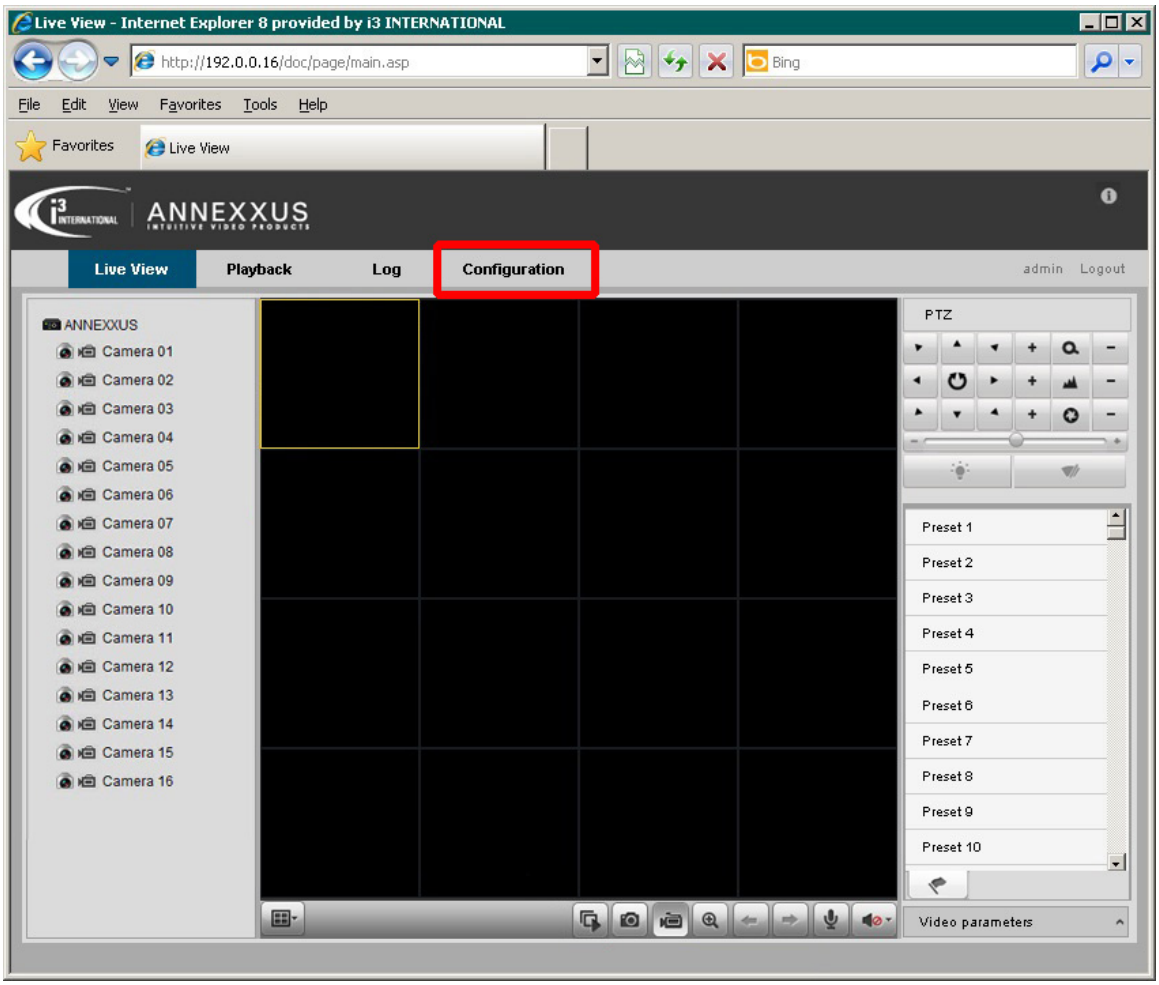
To access the encoder's Web GUI through your **web browser**, open web browser window and enter the encoder's IP address.
Note: Annexxus 516 default IP address is: **http://192.0.0.16**

A new Internet Browser window will be opened with the Annexxus 516 login screen.

1. In the login window, enter the encoder User Name and Password. Annexxus 516 default User Name is **admin** and default Password: **1234.**



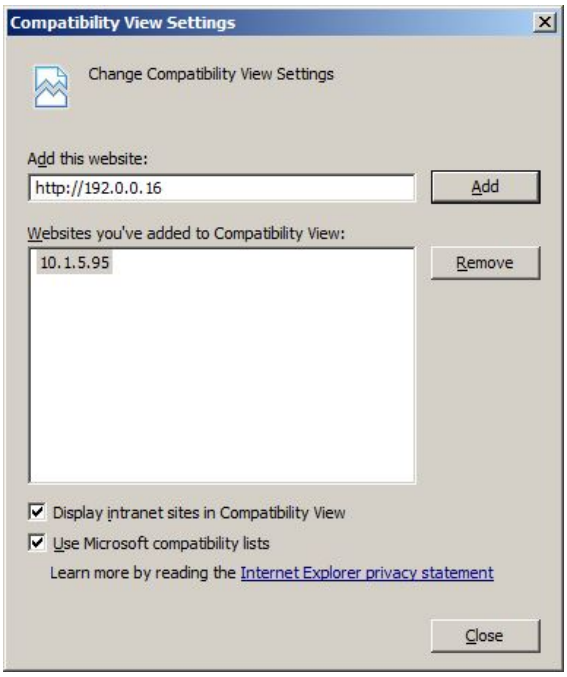
2. If accessing for the first time, download and install browser plug-in.
3. Annexxus encoder interface will be displayed in the Internet Explorer window. Click on the **Configuration** tab to access the encoder's advanced settings.



Note: If you are using Internet Explorer v.10 or v.11, you must first add the Annexxus 516 IP address to the browser's Compatibility View Settings.

To add an IP address to Internet Explorer's compatibility view settings,

a. Open a Browser window
b. Click on **Tools** -> **Compatibility View Settings**
c. Enter the Annexxus 516 IP address in the *Add this website:* field and click **Add**.



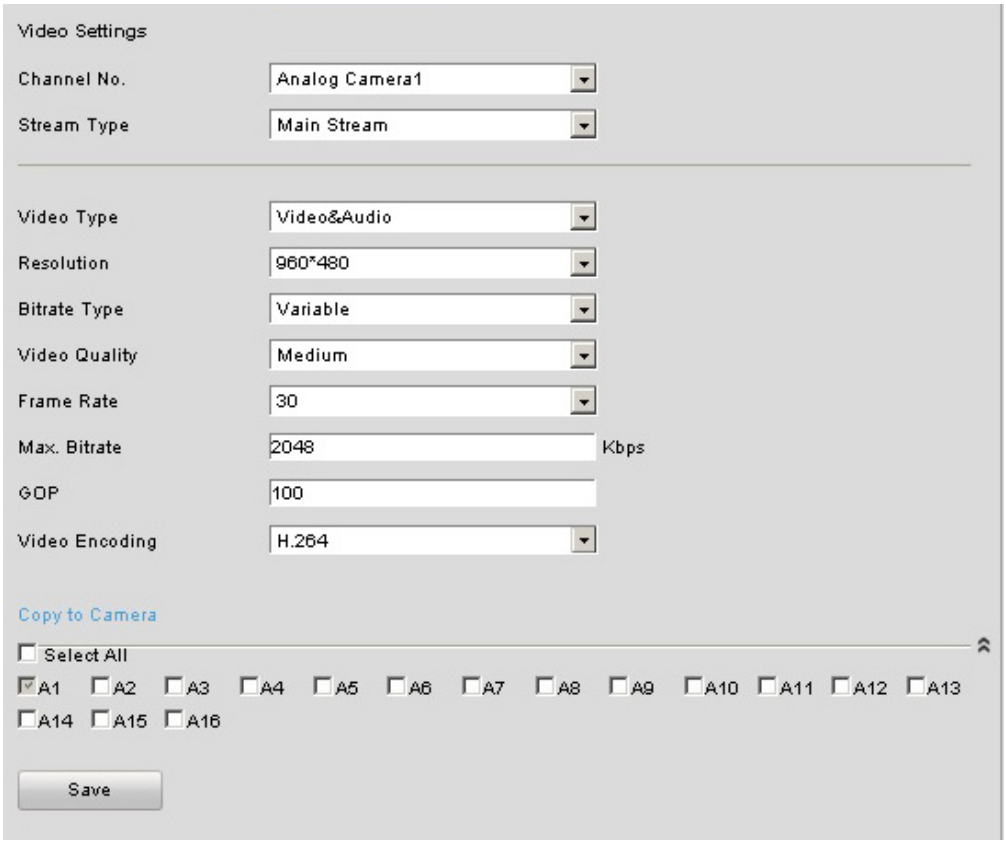
Configuring Video Settings

Annexxus 516 Video Settings allow configuring main and sub-stream settings, resolution, video quality, frame rate, and video encoding for each individual analog camera connected to the encoder.
While settings such as resolution and frame rate can be configured via SRX-Pro Server -> IP Camera setup page, main/sub stream settings and encoding can only be configured through Web GUI. SRX-Pro Server relies on the Main/Sub Stream settings as configured on Annexxus 516 Web GUI.
Note: Video settings configured on Annexxus 516 also affects the video feeds recorded by SRX-Pro Server.

To access Annexxus 516 Video Settings,

1. Open the encoder's Web GUI.
2. Go to Configuration -> Camera Settings -> Video Settings menu
3. Select the analog camera in the Channel No. drop-down menu
4. In the Video Settings setup, configure the Main Stream settings.
    a. Select **Main Stream** under the Stream Type drop-down menu
    b. Set the Resolution, Video Quality, Frame Rate and Video Encoding from corresponding drop-down menus.
5. Next, configure the Sub Stream settings.
    a. Select **Sub Stream** under the Stream Type drop-down menu
    b. Set the Resolution, Video Quality, Frame Rate and Video Encoding from corresponding drop-down menus.

6. Copy the settings to as many analog cameras as you wish, by checking off corresponding camera checkboxes in the bottom of the screen
7. Click **Save**.



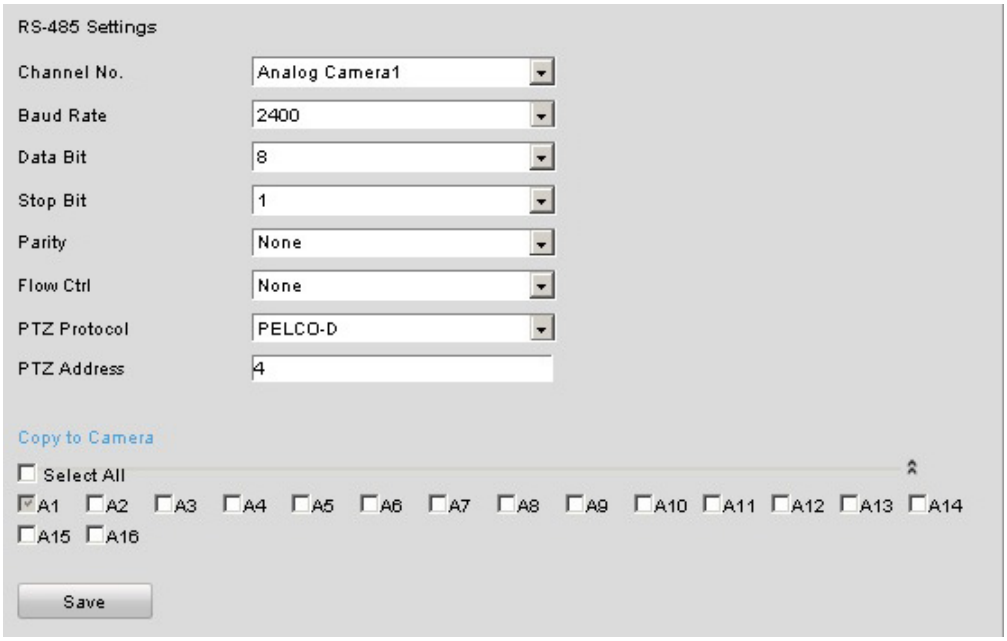
PTZ Control

To successfully control a PTZ camera through Annexxus 516 or SRX-Pro Server interface, start by correctly connecting the PTZ camera to the Annexxus 516 unit.

1. Connect the *R+* and *R-* terminals of the Pan/Tilt camera or a speed dome to *RS-485 D+* and *RS-485 D-* terminals on the back of the Annexxus 516 unit, respectively.
2. In the Annexxus 516 web GUI, go to Configuration -> Remote Configuration -> Serial Port settings -> 485 Serial Port setup.
3. Configure RS-485 Settings for each connected PTZ Camera and speed dome.
    a. Select the **Channel No.**, which matches the VIDEO IN BNC port in the back of Annexxus 516 unit where the PTZ camera is plugged into.
    b. Set the **Camera Baud Rate** (port speed) according to the PTZ camera specifications.
    Note: If using i3's PTZ730 camera, set the Baud Rate to 2400
    c. Set the camera's **PTZ Protocol**
    Note: If using i3's PTZ730 camera, use Pelco-D protocol

d. Set the **PTZ Address**, which is Camera ID. PTZ Camera ID is usually set by hardware dip-switches on the camera. See camera manufacturer's manual for instructions on how to set / find the camera's PTZ Address / Camera ID.

e. Click **Save**. Your PTZ Camera is now configured.



Note: It is recommended to leave default settings for Data Bit, Stop Bit, Parity and Flow Ctrl options.

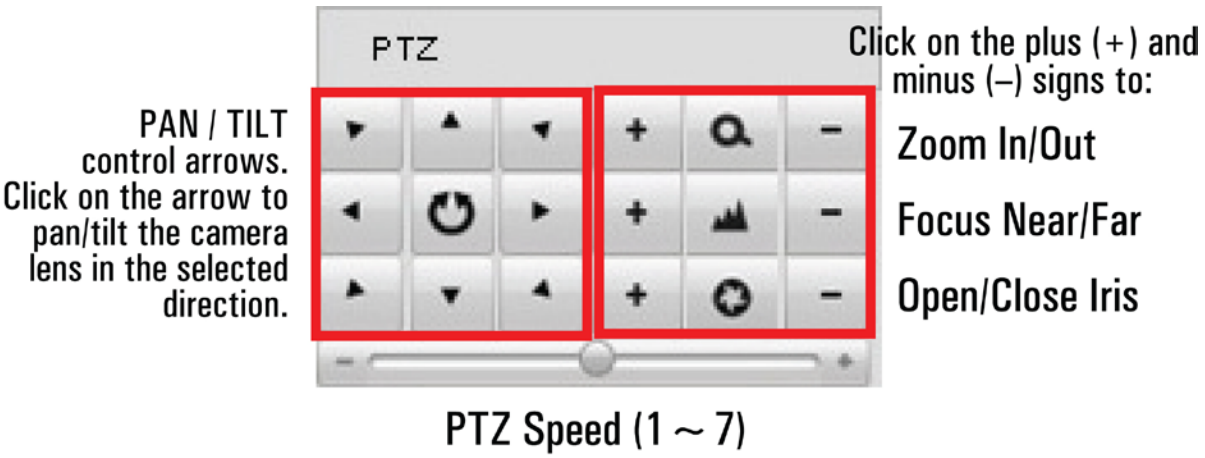
Annexxus 516 supports the following PTZ protocols:

1602-PROTOCOL	IntegrativeP	PLD RM110	TIANDY-PELCO-D
3609hd	KALATEL	RedApple	TIANDY-PELCO-P
A-01	KC3360S	SAE	TIANMIN-PELCO-D
AB-D	KTD-348	SHINEI	TIANMIN-PELCO-P
AB-P	Kony	SONY-EVI-D100/P	TL-HHX2000
ACES	LC-D2104	SONY-EVI-D30/31	TL-PELCO-P
ADV	LG MULTIX	SONY-EVI-D70	TL-V1200
ALSON	LILIN	SPD-2200	Tiandy
ANTEN	MAOWANG	SUNELL	VC-2000PTC-C
BBV-RS422	NAIJIE	Samsung	VCL
BEWATOR-PELCO-D	NITRO	Siemens	VICON
DRAGON	PANASONIC_CS850	TC-PELCO-D	
DSCP	PELCO-D	TC-PELCO-P	
HIKVISION	PELCO-P	TCL-PELCO-	
HY	PELCO-RS422TY		
Honeywell	PHILIPS		
	PHILIPS-3		
	PIH-1016		

INFINOVA Infinovadcp001a		D TCL-PELCO-P TECHWIN	VIDO B-01 VIDO B-02 YAAN-1 YAAN-2 YF-06 YOULI

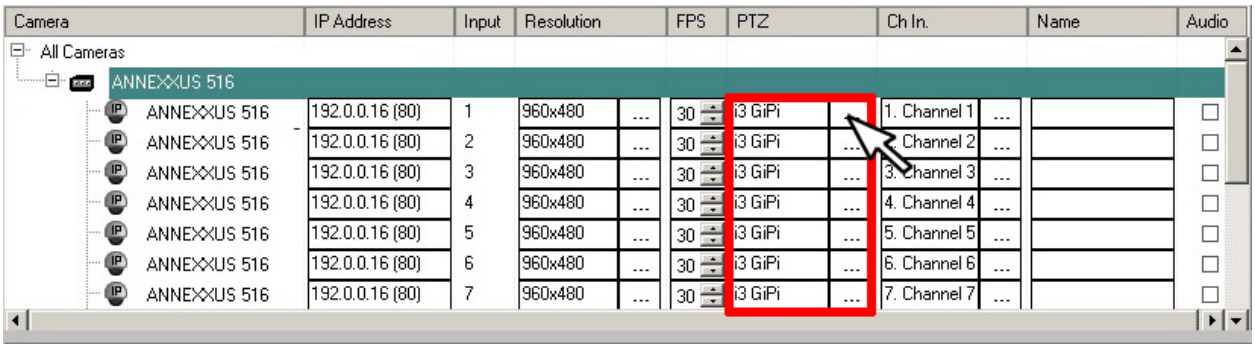
Live View PTZ Control

To control your PTZ camera from Annexxus 516 web GUI, open the encoder's interface via the Web Browser.
Start the Live Video and select the PTZ camera you would like to control on the screen.
Follow the instructions in the diagram below to control the PTZ camera in live view mode.


PTZ
PAN / TILT control arrows. Click on the arrow to pan/tilt the camera lens in the selected direction.
Click on the plus (+) and minus (–) signs to:
Zoom In/Out
Focus Near/Far
Open/Close Iris
PTZ Speed (1 ~ 7)

PTZ Control via SRX-Pro Server

In order to be able to use SRX-Pro Server/Remote on-screen PTZ controls and PTZ control panel to control analog PTZ cameras connected to Annexxus 516, the cameras must first be correctly configured in Annexxus 516 setup.
Once PTZ cameras are configured in Annexxus 516 setup and Annexxus 516 is successfully connected to SRX-Pro Server, make sure to select i3 GiPI in PTZ drop-down menu for each PTZ analog camera connected to Annexxus 516, see image below.


Camera
IP Address
Input
Resolution
FPS
PTZ
Ch In.
Name
Audio
All Cameras
ANNEXXUS 516
ANNEXXUS 516 192.0.0.16 (80) 1 960x480 30 i3 GiPi 1. Channel 1
ANNEXXUS 516 192.0.0.16 (80) 2 960x480 30 i3 GiPi Channel 2
ANNEXXUS 516 192.0.0.16 (80) 3 960x480 30 i3 GiPi 3. Channel 3
ANNEXXUS 516 192.0.0.16 (80) 4 960x480 30 i3 GiPi 4. Channel 4
ANNEXXUS 516 192.0.0.16 (80) 5 960x480 30 i3 GiPi 5. Channel 5
ANNEXXUS 516 192.0.0.16 (80) 6 960x480 30 i3 GiPi 6. Channel 6
ANNEXXUS 516 192.0.0.16 (80) 7 960x480 30 i3 GiPi 7. Channel 7

Setting and Calling Presets

Annexxus 516 allows configuring up to 256 presets for each PTZ camera, depending on the PTZ protocol used.
Note: Presets configured through Annexxus 516 Web interface function independently from the presets configured inside SRX-Pro Server software.

To set the preset:

1. In Live View mode, select the desired PTZ channel and use the PTZ control buttons to move the PTZ camera lens into the desired position.
2. Select a preset number from the preset list.

3. Click the Set Preset icon . Your new preset position has been saved.

To call the preset:

1. In Live View mode, select the desired PTZ channel

2. Select a preset number from the preset list.

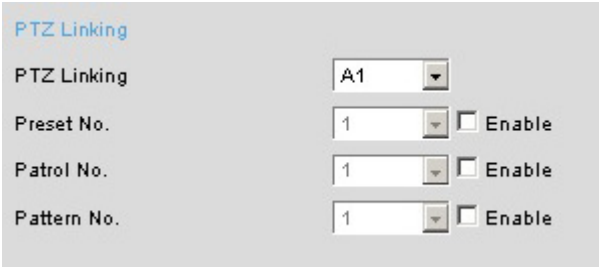
3. Click the Call Preset icon . Your selected PTZ camera will move into the saved preset position.

Call PTZ Preset on Alarm

Annexxus 516 allows the PTZ Camera's preset to be recalled automatically in response to a triggered alarm input.
Note: When configured, this feature will also affect the video feed recorded by SRX-Pro Server.

To link the Alarm Input to the PTZ camera's preset,

1. In Live View mode, set the PTZ camera preset.
2. Configure the selected Alarm Input in Configuration -> Alarm Settings -> Alarm Input setup.
3. Go to Configuration -> Remote Configuration -> Alarm Settings -> Alarm Input -> Linkage Method setup.
4. In the **PTZ Linking** drop-down menu, select PTZ Linking video channel.
5. Check off **Enable** checkbox next to the Preset No. drop-down menu.
6. Select configured preset in the **Preset No.** drop-down menu.



7. Click **Save**.

Specifications

Features	
Video Compression	h.264 / MPEG4 / MJPEG
Recording resolution	960H / 4CIF / 2CIF / CIF 960H: 960×480 (NTSC); 960×576 (PAL)
Frame rate	30 fps (NTSC)/ 25 fps (PAL) on h.264/MPEG4 encoding; 15 fps on MJPEG encoding
Video input	16CH (BNC)
Screen division	1,4,9,16 via IE v 6.0 and above, Firefox v3.5 and above, Chrome v8 and above, Safari v5.0.2 and above
Audio In/Out	16 Line in (2.0 Vp-p, 1 kΩ) / 1 Line out (3.5mm interface (Linear, 600 Ω)), CODEC:G.711
Alarm In/Out	16 In / 4 relays
Storage	1 HDD (SATA), up to 4TB
PTZ control	RS-485
System control	Via Web Connection
Remote SW	Web viewer
Search type	Search by time, search by event
System	
Time synchronization	Auto Time Sync. via NTP Server
User authority	Supports multi-user levels
System reliability	Auto-Recovery after power Failure
Firmware upgrade	Via Web Connection
Configuration export & import	Via Web Connection
Recording quality	6 Levels (Lowest/Lower/Low/Medium/Higher/Highest)
Recording schedule	By hour, by day of the week, by alarm, by motion
Pre-recording	Max. 30 sec
Post-recording	Max. 10 min
File format	i3 encrypted and AVI file via SRX-Pro Server MPEG4, h.264, MJPEG for local on-site recording
Network	
Network	10M/100M/1000Mbps adaptive Ethernet interface.

Protocols	IPv4/v6, HTTP, HTTPS, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, NTP, RTSP, RTP/RTCP, TCP, UDP, IGMP, ICMP, DHCP, ARP, SOCKSv4/v5, OnVIF
E-mail notification	Event/exception notification emails to selected user
System configuration	Full configuration setup via network/web connection
Two-Way audio	Via Web Connection. 1-ch, 3.5mm interface (2.0 Vp-p, 1 kΩ)
Physical Environment and Qualifications	
Weight	4 Kg (8.81 lb)
Power	12V DC
Operating temperature	-10°C ~ +55°C (14° F ~ 131° F)
Operating humidity	10% ~ 90%
Dimensions (W × D × H)	440 × 274 x 45 mm (17.3" x 10.8" x 1.8")
Certifications	FCC
Warranty	
Standard warranty	3 year parts, 1 year labor